Document #: ENFOC WI-0004	Serialized Control #:
Revision #:	Page 1 of 3
Prepared by: DAVID PETRIE	Approved by: Erik Michelsen
Signature:	Signature:
Issued By: OC-ALC/ENFOC	Issue Date: 3 JUN 2002

Procedure Title: E-3 LOADS/ENVIRONMENT SPECTRA SURVEY (L/ESS) REPORT

1. PURPOSE: The Loads/Environment Spectra Survey (L/ESS) Report provides the quarterly assessment of the real structural loads seen by the individual airplane along with other information
necessary for determining convergence of the data.

2. SCOPE: The scope of the L/ESS is for OC-ALC/ENFOC to analyze data received from the field units for each flight of each aircraft during the 3 months period covered by the report. OC-ALC/ENFO is to serve as the OPR for the L/ESS and report preparation.

3. DEFINITIONS: Loads/Environment Structural Survey terms are defined in the Boeing User's Manual.

4. RESPONSIBILITIES: OC-ALC/ENFO, Tinker AFB OK is the AFMC office of primary responsibility for processing, analyzing, and storing aircraft structural integrity data generated through airborne flight recorders, individual aircraft usage records (flight logs), monitoring devices and applicable maintenance data collection systems. The E-3 ASIMIS Engineer maintains oversight of the E-3 L/ESS Program. The Aerospace Engineering Technician performs the data entry and edit functions of the program uENFizing data extracted transcribed from the MXU-553 flight recorder cartridges.

5. INSTRUCTIONS: Edit MXU553/A data for accuracy to produce L/ESS Report.
5.1. RECAP: Receive MXU553/A cartridges from the field units. Run cartridge through RT and upload transcribed/reformatted data to mainframe. Run computer job to process data through RECAP program. Determine if cartridge is valid/invalid and note parameters, which are valid/invalid.
5.2. DACOMP: Run the mainframe data through Data Compression (DACOMP) computer program
unENF error free or cartridge determined invalid.
5.3. LISTER: Provide engineer with list of valid cartridges for the quarter. Valid DACOMP files are
merged for the quarter and the LISTER job is run.
5.4. LISTER BACKUP: Run the LISTER BACKUP computer job, which backs up the merged file for
the quarter of valid DACOMP data.
5.5. DANAL EXECUTION: The LISTER job created with SERMON creates a file which must be edited and a Data Analysis (DANAL) job is run to generate the quarterly L/ESS Report.

6. REFERENCES: 6.1. E3-002, E3 L/ESS DATA ANALYSIS (DANAL) COMPUTER PROGRAM-USERS MANUAL. Dated: 1 March 1981
6.2. AFBD 63-10, Aircraft Structural Integrity
6.3. AFI 63-1001, Aircraft Structural Integrity Program

7. RECORDS: Maintain data unENF the ASIP is terminated by the SPD or is no longer needed.

Governing Requirements	Specific Record	Resp Org	Stor Site	Form or Rcrd#	Filing Method	Ret. Time	Security Class	Remarks	Electronic Records Backup Method
NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

8. ATTACHMENT:

```
Receive MXU                                      Run
553 cartridges                                  LISTER
      |                                            |
      v                                            v
  Transcribe                                     Run
  cartridge                                     LISTER
      |                                         BACKUP
      v                                            |
    FTP                                            v
 transcribed                                    DANAL
  data to                                      EXECUTION
   main                                            |
   frame                                           v
      |                                   Produce Quarterly
      v                                        L/ESS
    Run                                        Report
   RECAP
      |
      v
     Is          NO      Send fault
  cartridge  -------->   message to
   valid                    SPD
      |
     YES
      |
      v
    Run
  DACOMP
```